

SK

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/744,502

DATE: 08/01/2001

TIME: 18:17:55

Input Set : A:\USP79179 Sequence Listing.txt

Output Set: N:\CRF3\08012001\I744502.raw

ENTERED

3 <110> APPLICANT: Rubio Susan, Victor
4 Salazar Torres, Oscar
5 Julain Esquivivias, Maria
6 Gonzales Garcia, Vincente
7 Munoz Gomez, Ramona
8 Gomez-Acebo Gullon, Eduardo
9 Lopez Corcoles, Horacio
11 <120> TITLE OF INVENTION: Protection of Plants Using Rhizoctonia
13 <130> FILE REFERENCE: USP79179
15 <140> CURRENT APPLICATION NUMBER: US 09/744,502
16 <141> CURRENT FILING DATE: 2001-01-24
18 <150> PRIOR APPLICATION NUMBER: PCT/GB99/02406
19 <151> PRIOR FILING DATE: 1999-07-23
21 <160> NUMBER OF SEQ ID NOS: 28
23 <170> SOFTWARE: PatentIn version 3.0
25 <210> SEQ ID NO: 1
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27 <212> TYPE: DNA
28 <213> ORGANISM: Rhizoctonia sp.
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36 <212> TYPE: DNA
37 <213> ORGANISM: Rhizoctonia sp.
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40 ccgtaaaaaa gtctt
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46 <213> ORGANISM: Rhizoctonia sp.
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52 <210> SEQ ID NO: 4
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54 <212> TYPE: DNA
55 <213> ORGANISM: Rhizoctonia sp.
57 <400> SEQUENCE: 4 18
58 aattgttcct ttgggcac
61 <210> SEQ ID NO: 5
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63 <212> TYPE: DNA
64 <213> ORGANISM: Rhizoctonia sp.
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70 <210> SEQ ID NO: 6
71 <211> LENGTH: 20

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72 <212> TYPE: DNA
73 <213> ORGANISM: Rhizoctonia sp.
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88 <210> SEQ ID NO: 8
89 <211> LENGTH: 21
90 <212> TYPE: DNA
91 <213> ORGANISM: Rhizoctonia sp.
93 <400> SEQUENCE: 8
94 tcgaatgaac aatggggatc g 21
97 <210> SEQ ID NO: 9
98 <211> LENGTH: 11
99 <212> TYPE: DNA
100 <213> ORGANISM: Rhizoctonia sp.
102 <400> SEQUENCE: 9
103 tcctccggga g 11
106 <210> SEQ ID NO: 10
107 <211> LENGTH: 13
108 <212> TYPE: DNA
109 <213> ORGANISM: Rhizoctonia sp.
111 <400> SEQUENCE: 10
112 ttcttcattg agg 13
115 <210> SEQ ID NO: 11
116 <211> LENGTH: 20
117 <212> TYPE: DNA
118 <213> ORGANISM: Rhizoctonia sp.
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124 <210> SEQ ID NO: 12
125 <211> LENGTH: 16
126 <212> TYPE: DNA
127 <213> ORGANISM: Rhizoctonia sp.
129 <400> SEQUENCE: 12
130 ttccgtctat taaacc 16
133 <210> SEQ ID NO: 13
134 <211> LENGTH: 26
135 <212> TYPE: DNA
136 <213> ORGANISM: Rhizoctonia sp.
138 <400> SEQUENCE: 13
139 acacaaaccc cattgtattt aaattg 26
142 <210> SEQ ID NO: 14
143 <211> LENGTH: 26
144 <212> TYPE: DNA

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148 acataaactc caatttaata aatctg                                     26
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153 <212> TYPE: DNA
154 <213> ORGANISM: Rhizoctonia sp.
156 <400> SEQUENCE: 15
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159 aatgaatata gagttggttg tcgctggctc ctccgggagc atgtgcacgc tttctctttc      120
161 atccacacac acctgtgcac ttgtgagacg gaggaccgta aaaaagtctt ccgtctatta      180
163 aaccacacaa accccattgt atttaaattg aatgtaattg atgtaacgca tcattaggaa      240
165 ct                                                                    242
168 <210> SEQ ID NO: 16
169 <211> LENGTH: 243
170 <212> TYPE: DNA
171 <213> ORGANISM: Rhizoctonia sp.
173 <400> SEQUENCE: 16
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176 tgaatgaata tagagttggt tgctgctggc tcctccggga gcatgtgcac gctttctctt      120
178 tcatccacac acacctgtgc acttgtagag cggaggaccg taaaaaagtc ttccgtctat      180
180 taaaccacac aaacccatt gtattttaat tgaatgtaat tgatgtaacg catcattaga      240
182 act                                                                    243
185 <210> SEQ ID NO: 17
186 <211> LENGTH: 238
187 <212> TYPE: DNA
188 <213> ORGANISM: Rhizoctonia sp.
190 <400> SEQUENCE: 17
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193 gaatatagag ttggttgctg ctggctcctc cgggagcatg tgcacgcttt ctctttcatc      120
195 cacacacacc tgtgcacttg tgagacggag gaccgtaaaa atgtcttccg tctattaaac      180
197 cacacaaacc ccattgtatt taaattgaat gtaattgatg taacgcatca ttagaact       238
200 <210> SEQ ID NO: 18
201 <211> LENGTH: 236
202 <212> TYPE: DNA
203 <213> ORGANISM: Rhizoctonia sp.
205 <400> SEQUENCE: 18
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208 atatagagtt ggttgctgct ggctcctccg ggagcatgtg cacgctttct ctttcatcca      120
210 cacacacctg tgcacttggt agacggagga ccgtaaaaaa gtcttccgtc tattaaacca      180
212 cacaaacccc attgtattta aattgaatgt aattgatgta acgcatcatt agaact       236
215 <210> SEQ ID NO: 19
216 <211> LENGTH: 237
217 <212> TYPE: DNA
218 <213> ORGANISM: Rhizoctonia sp.
220 <400> SEQUENCE: 19
221 gggataaaaag tcgtaacaag gtttccgtag gtgaacctgc ggaaggatca ttattgaatg      60
223 aatatagagt tggttgctgc tggtcctccc gggagcatgt gcacgctttc tctttcatcc      120
225 acacacacgt gtgcacttgt gagacggagg accgtaaaaa agtcttccgt ctattaaacc      180

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227 acacaaaccc catcgtatatt aagttgaatg taattgatgt aacgcatcat tagaact      237
230 <210> SEQ ID NO: 20
231 <211> LENGTH: 245
232 <212> TYPE: DNA
233 <213> ORGANISM: Rhizoctonia sp.
235 <400> SEQUENCE: 20
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238 attgaatgaa tatagagttg gttgtcgctg gctcctccgg gagcatgtgc acgctttctc      120
240 tttcatccac acacacctgt gcacttgtga gacggaggac cgtaaaaaag tcttccgtct      180
242 attaaaccac acaaacccca ttgtatttaa attgaatgta attgatgtaa cgcattcatta      240
244 aaact                                           245
247 <210> SEQ ID NO: 21
248 <211> LENGTH: 246
249 <212> TYPE: DNA
250 <213> ORGANISM: Rhizoctonia sp.
252 <400> SEQUENCE: 21
253 tttagagggga agtaaaaagt cgtaacaagg tttccgtagg tgaacctgcg gaaggatcat      60
255 tattgaatga atatagagtt gttgtcgctg ggctcctccg ggagcatgtg cacactttct      120
257 ctttcatcca cacacacctg tgcacttgtg agacggagga ccgtaaaaaa gtcttccgtc      180
259 tattaaacca cacaaccccc attgtattta aattgaatgt aattgatgta acgcatcatt      240
261 agaact                                           246
264 <210> SEQ ID NO: 22
265 <211> LENGTH: 252
266 <212> TYPE: DNA
267 <213> ORGANISM: Rhizoctonia sp.
269 <400> SEQUENCE: 22
270 ttcccttttt tagaggaagt aaaagtcgta acaaggtttc cgtaggtgaa cctgcggaag      60
272 gatcattatt gaatgaatat agagttggtt gtcgctggct cctccgggag catgtgcacg      120
274 ctttctcttt catccacaca cacctgtgca cttgtgagac ggaggaccgt aaaaaagtct      180
276 tccgtctatt aaaccacaca aaccctattg tatttaaatt gaatgtaatt gatgtaacgc      240
278 atcattagaa ct                                           252
281 <210> SEQ ID NO: 23
282 <211> LENGTH: 230
283 <212> TYPE: DNA
284 <213> ORGANISM: Rhizoctonia sp.
286 <400> SEQUENCE: 23
287 agtcgtaaca aggtttccgt aggtgaacct gcggaaggat cattattgaa tgaatataga      60
289 gttggttgct gctggctcct cgcgggagca tgtgcacgct ttctctttca tccacacaca      120
291 cctgtgcact tgtgagacgg aggaccgtaa aaaagtcttc cgtctattaa accacacaaa      180
293 cccattgta tttaaattga atgtaattga tgtaacgcatt cattagaact      230
296 <210> SEQ ID NO: 24
297 <211> LENGTH: 232
298 <212> TYPE: DNA
299 <213> ORGANISM: Rhizoctonia sp.
301 <400> SEQUENCE: 24
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304 gatcggttgt cgctggcttc ttcattgagg catgtgcacg cctttctcta tttcatccac      120
306 acacacctgt gaacttgtga gacggatagt agtaaaaaaa gtcttctgtc gtcaatacat      180
308 aaactccaat ttaataaatc tgaatgtaat tgatgtaaca catctttaa ct      232

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311 <210> SEQ ID NO: 25
312 <211> LENGTH: 226
313 <212> TYPE: DNA
314 <213> ORGANISM: Rhizoctonia sp.
316 <400> SEQUENCE: 25
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319 gatcggttgt cgctggcttc ttcattgagg catgtgcacg cctttctcta tttcatccac      120
321 acacacctgt gaacttgtga gacggaggac cgtaaaaaag tcttctgtct acataaaactc      180
323 caatttaata aatctgaatg taattgatgt aacacatctt taaact                      226
326 <210> SEQ ID NO: 26
327 <211> LENGTH: 173
328 <212> TYPE: DNA
329 <213> ORGANISM: Rhizoctonia sp.
331 <400> SEQUENCE: 26
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334 caccctgttg cacttgtgag actggaggcc gtaaaaagcc ttcagtctgc taaattcata      120
336 taaaaactca ttaattgaa ctgaatgtac ttgatgtaac gcatcattaa act              173
339 <210> SEQ ID NO: 27
340 <211> LENGTH: 230
341 <212> TYPE: DNA
342 <213> ORGANISM: Rhizoctonia sp.
344 <400> SEQUENCE: 27
345 aaagtcgtaa caaggtttcc gtaggtgaac ctgcggaagg atcattattg aatgaactta      60
347 gagtcggttg tcgctggctg tctttggcag catgtgcacg ccttctctat tcatccacac      120
349 acccctgtgc acttgtgaga ctggaggccg taaaaagcct tcagtgctaa attcatatac      180
351 aaactcattt aactgcactg aatgtacttg atgtaacgca tcattacact                230
354 <210> SEQ ID NO: 28
355 <211> LENGTH: 152
356 <212> TYPE: DNA
357 <213> ORGANISM: Rhizoctonia sp.
359 <400> SEQUENCE: 28
360 agagtttggg tgtagctggg ccctaattaa cttgggggca tgtgcacacc tttctctttc      60
362 atcccataca cacctgtgca cctgtgagac agatgttttc tagaggggga aggaacttta      120
364 ttggacctac tctccttga ccttctgtct ac                                152

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VERIFICATION SUMMARY

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